

The following amendments shall be made to the 2003 Edition of the International Code Council (ICC) Fire Code

Chapter One

1. Replace existing Section 101.1, “Title” with the following:

Section 101 .1 Title. These regulations shall be known as the Shelby County Fire Prevention Code hereinafter referred to as “this code.”

2. Replace existing Section 101.2.1, “Appendices” with the following:

Section 101.2.1 Appendices. Provisions in the appendices shall not apply unless specifically adopted and the following are applicable to this code:

Appendix B – Fire Flow Requirements for Buildings

Appendix C - Fire Hydrant Locations and Distribution

Appendix D - Fire Apparatus Access Road

Appendix E - Hazard Categories

Appendix F - Hazard Ranking

Appendix G - Cryogenic Fluids – Weight And Volume Equivalents

3. Add the following Language to Section 102.3 “Change of use or occupancy” so when amended it shall read:

102.3 Change of use or occupancy. The provisions of the Chapter 34 of the 2003 Edition of International Building Code, as locally amended, or the 2003 International Existing Building Code, as locally amended, shall apply to all buildings undergoing a change of occupancy.

4. Add the following language to Section 102.4 “Application of building code” so when amended it shall read:

102.4 Application of building code. The design and construction of new structures shall comply with the 2003 Edition of the International Building Code, as locally amended. Repairs, alterations and additions to existing buildings shall comply with provisions of the Chapter 34 of the 2003 Edition of the International Building Code, as adopted with local amendments or 2003 Edition of the International Existing Building Code, as adopted with local amendments.

5. Add the following language to Section 102.5 “Historic Buildings” so that it shall read,

Section 102.5 Historic Buildings. The construction, alteration repair, enlargement, restoration, relocation or movement of existing buildings or structures that are designated as historic buildings when such buildings or structures do not constitute a distinct hazard

to life or property shall be in accordance with the provisions of the Chapter 34 of the 2003 Edition of the International Building Code, as locally amended, or the 2003 Edition of the International Existing Building Code, as locally amended.

6. Modify Section 103.2 by deleting the phrase in the first sentence that reads “and the Fire Code Official shall not be removed from office except for cause and after full opportunity to be heard on specific and relevant charges by and before the Appointing Authority.” and replace it with the following language: “And shall serve at the will and pleasure of the Appointing Authority.”

7. Add the following language to Section 104.2 “Applications and permits” so that when amended it shall read:

104.2 Applications and permits. - The Fire Code Official, in conjunction with the Building Official for Shelby County, where appropriate, is authorized to receive applications, review construction documents and issue or authorize the issuance of permits for construction regulated by this code, inspect the premises for which such permits have been issued and enforce compliance with the provisions of this code.

8. Modify the following language to Section 104.6 “Official Records” so that when amended it shall read:

104.6 Official Records - The Fire Code Official shall keep official records as required by Sections 104.6.1 through 104.6.4. Such official records shall be retained for not less than five years or as long as required in the appropriate Tennessee Code Annotated Section dealing with retention of such records, which ever is shorter.

9. Modify the language to Section 104.6.3 “Fire Records” so that when amended it shall read:

104.6.3 Fire Records The fire department shall keep a record of fires occurring within its jurisdiction and of facts concerning same, together with other information required by the fire code official.

10. Modify the following language to Section 104.6.4 “Administration” so that when amended it shall read:

104.6.4 Administration. - Applications for modification, Alternative methods or materials, and the final decision of the Fire Code Official shall be in writing and shall be officially recorded in the permanent records of the Fire Code Official.

11. Modify the following language to Section 104.9 Alternative materials and methods” so that when amended it shall read:

104.9 Alternative materials and methods. The provisions of this code are not intended to prevent the installation of any material or to prohibit any method of construction not

specifically prescribed by this code, provided that any such alternative has been approved. The Fire Code Official, in coordination with the Building Official, when appropriate, is authorized to approve an alternative material or method of construction where the Fire Code Official finds that the proposed design is satisfactory and complies with the intent of the provisions of this code, and that the material, method or work offered is, for purpose intended, at least the equivalent of that prescribed in this code in quality, strength, effectiveness, fire resistance, durability and safety.

12. Modify the following language to Section 105.1.2 “Types of permits” so that when amended it shall read:

105.1.2 Types of permits. There shall be two types of permits as follows:

1. Operational Permits or Certificate of Occupancy. An operational permit allows the applicant to conduct an operation or a business for which a permit is required by Section 105.6 for either:
 - 1.1 A prescribed period
 - 1.2 Until renewed or revoked
2. Construction permit. A construction permit allows the applicant to install or modify systems and equipment for which a permit is required by Section 105.7.

13. Delete Section 105.2 “Application” in its entirety and replace it with the following language and tables so that when amended it shall read as follows:

105.2 Application. Application for a new permit required by this code in the unincorporated areas of Shelby County shall be made to the Fire Code Official in such form and detail as prescribed by the Fire Code Official and submitted to the Shelby County Fire Department, 1075 Mullins Station Road, Building C, 2nd Floor, Memphis, TN. 38134. Fees shall be in accordance with the schedule provided below in Section 105.2 Table 1 through Section 105.2 Table 5 which fees shall also appear on the reverse side of the application. The issuance of a permit shall not be held to constitute approval to violate provisions of any Code or other ordinances approved by the Shelby County Commissioners. Applications for permits shall be accompanied by such plans as prescribed by the Fire Code Official.

Section 105.2- Table 1

<u>ORIGINAL INSPECTIONS:</u> Fee for original inspection for occupancies, which require Fire Department approval for state licensing, including, but not limited to:	
Day Care Centers	\$ 75.00
Adult Day Care Centers	\$ 75.00
Residential Board and Care Homes	\$ 75.00
Day Treatment Centers	\$ 75.00
Institutional Occupancies	\$ 100.00
Alcohol and Drug Care Centers	\$ 75.00

Section 105.2 -Table 2

<u>YEARLY INSPECTIONS: Fees for annual re-inspections for occupancies which require Fire Department approval for state licensing, including, but not limited to:</u>	
Day Care Centers	\$ 50.00
Adult Day Care Centers	\$ 50.00
Residential Board and Care Homes	\$ 50.00
Day Treatment Centers	\$ 50.00
Institutional Occupancies - More than 10,000 Sq. Ft.	\$100.00
Institutional Occupancies -10,000 Sq. Ft. or less	\$50.00
Alcohol and Drug Care Centers	\$50.00

Section 105.2 - Table 3

<u>PLANS REVIEW FOR NEW INSTALLATION: The following fees include plans review and two (2) approval inspections for new installations: (See Note 1 below for additional information on inspections)</u>	
Fire Pump Installation	\$ 100.00
Fire suppression System (Hood)	\$ 100.00
Smoke and Heat Detection Systems	\$ 100.00
Standpipe Systems	
1. Sprinkler system (each system)	\$ 100.00
2. Halon Systems	\$ 100.00
3. Dry/Wet Chemical Systems	\$ 100.00
4. Carbon Dioxide Systems	\$ 100.00
5. Foam Systems	\$ 100.00
6. Foam Water Systems	\$ 100.00
7. Fire Alarm Systems	
A.) 1-5 Stories	\$ 100.00
B.) 6+ Stories	\$ 150.00
C.) If building has atrium added	\$ 50.00
8. Transmitter installation for the purpose of supervising a fire protection system	\$ 50.00
9. Point of connection to fire alarm by central station to monitoring station	\$ 50.00
Private Fire Hydrant Installation	\$ 50.00
1. Each additional Hydrant	\$ 25.00
Flammable Liquid Storage Room	\$ 75.00
Flammable Liquid Storage Building	\$ 100.00
Hazardous Chemical Storage Room	\$ 75.00
Hazardous Chemical Storage Building	\$ 100.00
Paint Spray Booth	\$ 50.00
Paint Spray Room/area	\$ 100.00
Installation of Inside/outside Above ground Flammable /combustible liquid storage tanks	\$ 100.00
Installation of Inside/Outside Above Ground	\$ 100.00

Hazardous Chemical Storage Tank	
Liquid Petroleum Storage Tank (120Gal.+)	\$ 100.00
Cryogenic Storage Tank	\$ 100.00

Note 1: Additional inspections required in connection with the permit approval, after the first two (2) inspections, shall be assessed at a rate of \$25.00 per man hour expended.

Section 105.2 - Table 4

<u>PLANS REVIEW FOR ALTERATIONS:</u> The following fees include plans review and two (2) approval inspections: (See Note 1 below for additional information on inspections)	
Fire suppression System (Hood)	\$ 50.00
Smoke and Heat Detection Systems	\$ 100.00
Standpipe Systems	
1. Halon Systems	\$ 50.00
2. Dry/Wet Chemical Systems	\$ 50.00
3. Carbon Dioxide Systems	\$ 50.00
4. Foam Systems	\$ 50.00
5. Foam Water Systems	\$ 50.00
6. Sprinkler Systems (10+ Heads)	\$ 50.00
7. Fire Alarm Systems	
A.) 1-5 Stories	\$ 50.00
B.) 6+ Stories	\$ 75.00
Flammable Liquid Storage Room	\$ 75.00
Flammable Liquid Storage Building	\$ 100.00
Hazardous Chemical Storage Room	\$ 75.00
Hazardous Chemical Storage Building	\$ 100.00
Paint Spray Booth	\$ 50.00
Paint Spray Room/area	\$ 100.00
Installation of Inside/outside Above ground Flammable /combustible liquid storage tanks	\$ 100.00
Installation of Inside/Outside Above Ground Hazardous Chemical Storage Tank	\$ 100.00
Liquid Petroleum Storage Tank (120Gal.+)	\$ 100.00
Cryogenic Storage Tank	\$ 100.00

Note 1: Additional inspections required in connection with the permit approval, after the first two (2) inspections, shall be assessed at a rate of \$25.00 per man hour expended.

Section 105.2 - Table 5

Misc. Fees and Permits	
Fire Works Display Only (Stand by fireman require additional cost)	\$25
Tent Inspection (120 Sq. Ft. to 1,000 Sq. Ft.)	\$10
Tent Inspection (over 1,000 Sq. Ft.)	\$25
Cutting and Welding	\$25
Flammable and Combustible Liquid	\$50

Underground Tank Test	
Flammable and Combustible Liquid Line Test	\$50
Flammable and Combustible Liquid Tank removal	\$50
Use, Handle or Store Explosives	\$50
Fire Inspection Report - First Page	\$10
Each additional Page	\$1
Fire Inspection Required by Alcohol Commission	\$50
Fire Inspection Photos (per photo)	\$10
Permit for approved, controlled, open burn	\$50
Inspection required for insurance or similar purpose (Charge per hour including travel)	\$25
High Pile Combustible storage exceeding 2,500 sq. ft.) For Compliance with Chapter 23	\$100

14. Delete Section 105.2.1 “Refusal to issue permit”, in its entirety and replace it with the following language, so that when amended it shall read:

105.2.1 Refusal to issue permit. If the application for a permit describes a use that does not conform to the requirements of this code and other pertinent laws and ordinances, the Fire Code Official shall not issue or authorize the issuance of a permit, but shall return the application to the applicant with the refusal to authorize the issuance of such permit. Such refusal shall, when requested, be in writing and shall contain the reasons for the refusal. Any fee submitted for such application shall be retained by the Fire Code Official.

15. Section 105.2.4 “Action on application” is amended by deleting the phrase “issue a permit” in the last sentence and replace it with the phrase, “authorize the issuance of a permit.” so that when amended it shall read:

105.2.4 Action on application. The Fire Code Official shall examine, or cause to be examined, applications for permit and amendments thereto within a reasonable time after filing. If the application or construction documents do not conform to the requirements of pertinent laws, the Fire Code Official shall reject such application in writing stating the reason therefore. If the Fire Code Official is satisfied that the proposed work or operation conforms to the requirements of this code and laws and ordinances applicable thereto, the Fire Code Official shall issue or authorized the issuance of a permit therefore as soon as practicable.

16. Add a new Section 105.2.5 “Timing of application” which shall read as follows:

105.2.5 Timing of application- Any application for a permit shown in Section 105.2 Table 5 submitted less that forty eight (48) hours in advance of date permit is needed shall be subject to an additional fee of twenty-five (\$25.00) dollars. The failure to obtain

permit approval prior to installation or the beginning of construction shall result in a fee double the standard fee for the installation or construction being charged.

17. Section 105.3.3 “Occupancy prohibited before approval” shall be amended by modified by replacing the term “issuing a permit that indicates” with the phrase “notifying the Building Official” after the term Fire Code Official, so when modified it shall read as follows:

105.3.3 Occupancy prohibited before approval. The building or structure shall not be occupied prior to the Fire Code Official notifying the Building Official that all applicable provisions of this code have been met.

18. Section 105.3.4 “Conditional permits” shall be modified by adding the term “only fire prevention code” after the first word in the first sentence so when modified it shall read as follows:

105.3.4 Conditional permits. Where only fire prevention code permits are required and upon the request of a permit applicant, the Fire Code Official is authorized to issue a conditional permit to occupy the premises or portion thereof before the entire work or operation on the premises is completed, provided such portion or portions will be occupied safely prior to full completion or installation of equipment and operations without endangering life or public welfare. The Fire Code Official shall notify the permit applicant in writing of any limitations or restrictions necessary to keep the permit area safe. The holder of a conditional permit shall proceed only to the point for which approval has been given, at the permit holder’s own risk and without assurance that approval for the occupancy or the utilization of the entire premises equipment or operations will be granted.

19. Section 105.3.7 “Information on permit” is deleted in its entity and replaced with the following:

105.3.7 Information on the permit. The Fire Code Official shall authorize the issuance of all permits required by this code on a form furnished for that purpose. The permit shall contain a general description of the operation or occupancy and its location and any other information required by the fire code or building official. Issued permits shall bear the signature of the fire code official, building official or other approved legal authorization.

20. Section 105.4.1 “Submittals” is deleted in its entirety and replaced with the following:

105.4.1 Submittals. Unless otherwise stated, three sets of any construction documents required exclusively by this code shall be submitted and shall be in such form and detail as required by the fire code official. The construction documents shall be prepared by a registered design professional where required by the statutes of the jurisdiction in which the project is to be constructed.

21. Section 105.6.28 “LP gas” is amended to add the following sentence at the end of section 1 after the word “gas”:

It shall be the responsibility of the owner of the LP container to obtain the permit.

22. Section 105.6.44 “Temporary membrane structures, tents and canopies” is amended to delete the entire section and substitute in lieu thereof the following:

105.6.44 Temporary membrane structures, tents and canopies No person shall erect, operate or maintain a tent, air supported structure or canopy covering an area in excess of 120 sq ft (11.15m²) without a permit.

Exception: Tents used exclusively for camping purposes.

23. A new Section 105.6.44.1 is added and shall read as follows:

105.6.44.1 Who must obtain permit. It shall be the responsibility of the owner of the tent to obtain the permit.

24. Delete Section 108.1 “Board of appeals established” and replace it with the following:

108.1 Board of Appeals established. In order to hear and decide appeals of orders, decisions or determinations made by the fire code official relative to the application and interpretation of this code, the Shelby County Board of Appeals, established in County Ordinance 3333, shall be and is hereby authorized to act as the appellate board for the Department. All procedures and membership for this Board shall be as described in the above cited ordinance and all later amendments thereto.

25. Section 108.3 “Qualifications” shall be deleted and no replacement given.

26. Section 109.3 “Violation penalties” is deleted in its entirety and replaced with the following:

109.3 Violation penalties. Persons who shall violate a provision of this code or shall fail to comply with any of the requirements thereof or who shall erect, install, alter, repair or do work in violation of the approved construction documents or directive of the fire official, or a permit or certificate used under the provisions of this code shall be guilty of a civil offense, punishable by a fine of not more than fifty (\$50.00) dollars per day. Each day or part thereof that a violation continues after due notice has been served shall be deemed a separate offense.

27. Section 111.4 “Failure to comply” is deleted in its entirety and replace with the following:

111.4 Failure to Comply. - Any person who shall continue any work after having been served with a stop work order, except such work as that person is directed to perform to remove a violation or unsafe condition, shall be liable to a fine of not less than twenty five dollars (\$25.00) and not more than fifty (\$50.00) dollars per day with each day or part thereof that the activity occurs being considered a new violation and as such subject to a new fine.

28. Chapter 2 “Definitions” is amended by adding the following new definitions at their appropriate location based on their alphabetic order:

Alternate Source Of Water – For one and two family dwellings not exceeding two stories in height, and unable to comply with the water main and fire hydrant requirements; for the following Insurance Services Offices calculations of needed fire flow shall be required

1. The alternate source of water shall be within 500 feet of the structure being protected
2. An all-weather hard surface roadway shall be provided to within ten feet of the deep end of the source of water

EXCEPTION: A dry hydrant may be substituted for items 1 and 2 above.

3. When wood shingle roof covering is on the building being considered, or on the exposed building, and additional 500 gallons per minute (GPM) to the needed fire flow

- 4 The alternate source of water shall have a minimum capacity capable of providing the following needed fire flows for one hour

<u>Distance between buildings</u>	<u>Needed fire flow for one hour</u>
Over 100 feet	500 GPM = 30,000 gallons
31-100 feet	750 GPM = 45,000 gallons
11-31 feet	1,000 GPM = 60,000 gallons
10 feet or less	1,500 GPM = 90,000 gallons

Dry Hydrant – Where access to an alternative source of water is impossible, the following may be installed for drafting water from lakes or ponds. A six inch diameter pipe run horizontally (not more than 150 feet) three feet below the lowest water table to a vertical pipe which does not exceed twenty feet in height and ends two feet above grade. The vertical pipe shall be fitted with a 90 degree elbow and a NST 5 inch female coupling for attachment to fire department drafting hose. Water in the vertical pipe will, at the lowest water table be three feet from the bottom.

Light Wood Truss: Manufactured from the natural wood fiber in trees, cut and dried to nominal dimensions such as 2 x 4, 2 x 6, 2 x 8, 2 x 10, 2 x 12, etc., which is used in floor and ceiling systems. These wooden structures are composed of a combination of members such as chords, diagonals, and web members, usually in same triangular arrangements so as to constitute a rigid framework.

Chord: A principal member of a truss which extends from one end to the other, primarily to resist bending; usually on of a pair of such members.

Diagonal: In a framed structure, an inclined member running across a panel as in a truss.

Web: The portion of a truss or girder between the chords or flanges, whose principal function is to resist shear on the span.

Chapter 3 **General Precautions Against Fire**

29. Section 307.2 “Permit required” is amended by deleting it in its entirety and substituting in its place the following section.

307.2 Permit required. A permit shall be obtained from the fire code official in accordance with section 105.6 prior to kindling a fire for recognized silvicultural or range or wildlife management practices, prevention or control of disease or pests, or a bonfire. A permit is also needed for fires for the burning of bodies of dead animals, including poultry, where no other safe and/or practical disposal method exists. Applications for such permits or approval shall be presented by and permits only issued to the owner of the land upon which the fire is to be kindled. Department approval, but no permit, is required for the following fires provided no nuisance is or will be created by the open burning.

1. Fire used for the reduction of leaves on the premises on which they fall,
2. Fire used for carrying out recognized agricultural procedures necessary for the production or harvesting of crops or for the control of diseases or pests, in accordance with practices acceptable to the Department
3. Fire used for the cooking of food, including barbecues and outdoor fireplaces with the exception of a portable charcoal or LP Gas barbecue grill inside, under or within ten (10) feet of a structural member attached to, or part of, Group R-1 or R-2 residential buildings, which is prohibited, in a non-commercial facility.

EXCEPTION: Open burning may be permitted when all the following conditions are met:

- a. A request is properly filed with the Health Department under its air pollution code stating why open burning must be employed to dispose of the material involved, the amount and kind of material to be burned, the exact location where the burning will occur and the dates when the open burning will be accomplished.
- b. Approval is received by the Health Department
- c. A permit is secured from the fire code official
- d. The burning is accomplished between the hours of 9:00 A.M. and 4 P.M. or as authorized by the Health Department.

30. Section 307.2.2 “Prohibited open burning” is amended by deletion of the section in its entirety and substitution of the following section in its place:

307.2.2 Prohibiting open burning. The fire code official may prohibit any or all bonfires and outdoor burning, including any permitted or authorized open burning, that will be offensive, objectionable or hazardous to public safety by reason of atmospheric

conditions or other local circumstances, including predicted local air quality. The fire code official is authorized to order the extinguishment by the permit holder or the fire department of open burning which creates or adds to a hazardous or objectionable condition.

31. Section 307.2.3 “Continuing responsibility” is added and shall read as follows:

307.2.3 Continuing responsibility. Any grant of permission or permit to burn under this section will not relieve the person receiving the authorization or permit from the consequences of any damages, injuries or claims resulting from such burning.

32. Section 307.3 “Location” is amended by the deletion of the first “Exceptions” so that when amended it shall read as follows:

307.3 Location. The location for open burning shall not be less than 50 feet (15,240 mm) from any structure, and provisions shall be made to prevent the fire from spreading to within 50 feet (15,240 mm) of any structure.

Exception:

1. The minimum required distance from a structure shall be 25 feet (7,620 mm) where the pile size is 3 feet (914 mm) or less in diameter and 2 feet (610 mm) or less in height.

33. Section 307.3.2 “Recreational fires” is omitted in its entirety and no substitute language is provided.

34. Section 308.3.1 “Open flame cooking devices” is amended to delete the entire section and substitute in lieu thereof the following:

308.3.1 Open flame cooking devices. Open flame cooking devices shall not be used on combustible balconies of multiple-family dwellings, two or more stories in height. They also shall not be used on balconies of these buildings where a noncombustible balcony is connected to a building of combustible construction, or within ten (10) feet of such buildings.

EXCEPTION: Electric grills not employing open flames for the cooking medium shall be permitted.

35. Section 311.1.1 “Abandoned premises” is amended by deletion in its entirety and replacement of the following section:

311.1.1 Abandoned premises. Buildings, structures and premises for which the owner cannot be identified or located by dispatch of a certificate of mailing to the last known or registered address, which persistently or repeatedly becomes unprotected or unsecured, which have been occupied by unauthorized persons or for illegal purposes, or which present a danger of structural collapse or fire spread to adjacent properties shall be

considered abandoned, declared unsafe and abated by demolition or rehabilitation in accordance with the 2003 Edition of the International Building Code, as locally amended.

Chapter 4 Emergency Planning and Preparedness

36. Section 401.1 “Scope” is amended to delete the Exception without replacement.

37. Section 405.2 “Frequency” is amended to add the following sentences at the end of the section after the word “procedure”.

In all Group H and Group F occupancies, fire drills shall be held every six (6) months where fire alarm facilities are provided as required by this code. Fire drills shall be held to familiarize the occupants and building personnel with emergency procedures.

38. Table 405.2 “FIRE AND EVACUATION DRILL FREQUENCY AND PARTICIPATION” is amended by adding the two group or occupancy classifications and the frequency and participation requirements shown above so when amended the Table shall appear as follows:

Group or Occupancy	Frequency	Participation
Group A	Quarterly	Employees
Group E	Monthly ^a	All Occupants
Group I	Quarterly each shift	Employees ^b
Group R-1	Quarterly each shift	Employees
Group R-4	Quarterly each shift	Employees ^b
Group H	Semi-annual each shift	Employees
Group F	Semi-annual each shift	Employees

a. The frequency shall be allowed to be modified in accordance with Section 408.3.2.

b. Fire and evacuation drills in residential care assisted living facilities shall include complete evacuation of the premises in accordance with Section 408.10.5. Where occupants receive habilitation or rehabilitation training, fire prevention and fire safety practices shall be included as part of the training program.

Chapter 5 Fire Service Features

39. Section 502 “Definitions” shall be amended to add the following definitions at their appropriate location based on their alphabetic order:

Fenced compounds Properties such as but not limited to, car lots, storage lots, warehouses, retail or wholesale businesses, night watchmen staffed facilities, or the facility is open during business hours and uninhabited when closed, etc.

Residential communities A community shall be defined as a location at which a group resides and/or dwells, including but not limited to, apartments, hotels, modular home communities, private subdivision, etc.

40. Section 503.6 “Security gates” is amended to delete the entire section and substitute in lieu thereof the following sections and subsections:

503.6 Security gates. Any gated and/or fenced community shall have at least one 20 foot opening gate which shall be designated as the Fire Department primary access. This gate shall conform to sections 503.6.1.1 through 503.6.1.6 and, if automated, shall be equipped with both primary and secondary overrides. (See also Appendix D, Section D103.5)

EXCEPTION: Group R-3 occupancies are exempt from the requirements of this section when the fenced area is for a single occupancy.

503.6.1 Automatic gates. All automatic gates on required fire department access roadways, as determined by the Fire Official, shall provide approved override and power-off equipment. This override system shall provide controls to open and override timer functions for emergency access and power off equipment for manual operation.

503.6.1.1 Emergency override. Emergency override of all automated gate systems shall operate with power on or off. The emergency override system shall consist of a fire access housing designed as follows: The access box shall be red in color and display “Fire Dept.” or “Fire Access” in white letters on the face plate. The face plate shall be hinged and designed to accept a Medeco padlock, keyed to the Shelby County Fire Department access key. The Fire Access housing shall be equipped with an internal switch so as when the pad lock is removed and the face plate is opened, it will signal the automated gate to open. The automated gate shall remain open as long as the face plate remains open. Upon closing of the face plate and reinserting the Medeco pad lock, the automated gate shall return to normal operation. The Fire Access housing shall be installed in a manner as to be plainly visible from the cab of the approaching emergency vehicle.

503.6.1.2 Manual disconnects. All automated entry gates shall be equipped with Medeco padlocked disconnects for use in the event that the power supply to the automated gate fails or the Fire Access housing device fails to open the gate.

503.6.1.2.1 Sliding gates. For a sliding gate, the rear chain attachment point at which the chain connects to the physical gate, shall be padlocked and secured with a Fire Department keyed Medeco lock. If the disconnect is not accessible from the public side or the secured sides of the gate, a walk gate padlocked with a Fire Department keyed Medeco lock shall be installed to allow access to the disconnect.

503.6.1.2.2 Swing gates. For a swing gate, the attachment point of the swing arm to the gate shall be equipped with a disconnect pin that shall be padlocked. As with the slide style gate, this pin shall be accessible from both the public and secured sides of the gate

503.6.1.3 Additional gates. If a community design prevents emergency equipment from accessing any area of the property from the primary access gate, it may be deemed necessary by the Fire Official that more than one Fire Department access gate is required. Additional emergency access gates shall conform to the same standards as the primary gate, unless the Fire Marshal declares these gates to be secondary, and allows them to be padlock secured with a Fire Department keyed Medco lock, interlocked with the owners lock, rather than being automated.

503.6.1.4 Locking access gates. If locked, gates in fenced compounds shall be padlock secured with a Fire Department keyed Medeco padlock, interlocked with the owner's lock.

503.6.2 Access to hydrants. The Fire Marshal shall require all fences that impede access to hydrants, whether from the street or to the structure, to have 48" walk gates installed at or near those hydrants. To allow proper access to the hydrant for fire fighting purposes, these fences shall not be located within a 10' radius of the center line of the hydrant. Additionally, long runs of fencing that block access to buildings shall require the installation of walk gates at intervals not exceeding 300 linear feet. Gates installed at hydrants may be included to meet this requirement. If locked, required walk gates shall be equipped with Medeco locks properly keyed for Shelby County Fire Department use.

41. Section 505 "Premises identification" is amended by adding the following new Section 505.3 and the subsections as follows:

505.3 Identifying emblems for structures with light wood truss construction

505.3.1 Emblem permanently affixed. An identifying emblem shall be permanently affixed at all buildings having light wood truss construction. This section shall not apply to one and two family dwellings.

505.3.2 Emblem description The identifying emblem shall be in the shape of an isosceles triangle with a vertical height of six (6) inches and a horizontal length of twelve (12) inches. The background of the emblem shall be made of a white reflective material and all lettering thereon shall be made of a red reflective material, said lettering having a minimum height of at least four (4) inches with a one-half (1/2) inch stroke.

The emblem shall contain the following designations to identify the presence of wood trusses in the structure:

1. "F" shall designate a floor with truss construction.
2. "R" shall designate a roof with truss construction.
3. "F/R" shall designate both a floor and roof truss construction.

505.3.3 Location of emblem. The emblem shall be permanently affixed at one of the following locations:

1. Where a building or group of buildings has an approved Fire Department access drive(s) meeting the requirements of Section 503 of the International Fire Code, 2003 edition, as locally amended, emblems shall be placed at each entrance on the left side of each drive at a height of 3 to 5 feet above ground, no more than 3 feet from the curb line; or,
2. In the event a building or group of buildings do not have approved access drive(s) immediately adjacent to the building, the emblem shall be affixed to each building on the address side of the building visible to approaching fire companies; or,
3. At such other location (s) approved by the Fire Official.

If a building exceeds 12 tenant spaces or 12,000 square feet, additional emblems shall be provided on the building at locations designated by the Fire Official. These emblems shall be installed and maintained by the owner of the structure(s).

42. Section 508.2 “Type of water supply” add an “Exception” to the end of the section that reads as follows:

Exception – Alternative water supplies are permitted with the approval of the Fire Code Official. This will include any supply utilizing a dry hydrant access point.

43. Section 508.3 “Fire flow” is amended to delete the entire section and substitute in lieu thereof the following:

508.3 Fire flow. Fire flow requirements for buildings or portions of buildings and facilities should be based upon Memphis Light, Gas and Water (MLG&W) requirements found in Table 508.3 below. Minimum required fire flow rates shall be those found in Appendix B. Any changes to the required minimum fire flow will be determined on a case by case basis by joint agreement between MLG&W and the Shelby County Fire Department.

TABLE 508.3		
Fire Flow Requirements		
Description		Minimum Flow Rate (Gallons per Minute)
Hazardous Occupancies	Major Hazard (Groups H-1, H-2 and H-3)	15,000
	Moderate Hazard (H-4 and H-5)	10,000
	Minor Hazard	5,000

	(As determined by the Fire Code Official)	
Storage Manufacturing Assembly >1,000 Mercantile	Up to 5000 square feet*	3,000
	Between 5000 and 50,000 Square Feet, Up to 12' storage	No sprinkler = 4,000 Sprinkler System=3,000 ESFR Sprinkler System =3,000
	Between 5,000 and 50,000 square feet with over 12' storage or 50,000 to 100,000 square feet with up to 12' storage	No sprinkler = 6,000 Sprinkler System= 4,200 ESFR Sprinkler System =3,600
	Larger than 50,000 square feet with over 12' storage or over 100,000 square feet	No sprinkler = 8,000 Sprinkler System=5,600 ESFR Sprinkler System =4,800
Institutional Assembly < 1000 Business Educational Multi-Family Residential	Non-Fire resistant, 3 or more stories	4,000
	Semi-Fire resistant, 3 or more stories	3,000
	No exposure, one or two stories	3,000
One and Two Family Dwellings	Less than 3,600 square feet greater than 10' apart	2,000
	Over 3,600 or less than 3,600 square feet and less than 10' apart	3,000
Misc. or "U"	5,000 square feet	3,000

* The proper fire prevention authority reserves the right to increase fire flows for special hazard commodities and will judge these instances on a case by case basis.

Should there be any question concerning the minimum fire flow requirements or any deviation from the minimum fire flow requirements, Memphis Light Gas and Water, Water Engineering, along with the proper fire prevention authority must be consulted and written approval obtained.

44. Section 508.5.1 "Where required" is amended to delete the phrase "400 feet (122 m)" in the first sentence and replace with the phrase "500 feet (152 m)". This section shall be further amended to delete "exceptions" 1 and 2 without substitution. Therefore after amendment it shall read as follows:

508.5.1 Where required. Where a portion of the facility or building hereafter constructed or moved into or within the jurisdiction is more than 500 feet (152 m) from a hydrant on a fire apparatus access road, as measured by an approved route around the exterior of the facility or building, on-site fire hydrants and mains shall be provided where required by the fire code official.

45. Section 508.5.4 “Obstruction” is amended by the deletion of the entire Section and its replacement with the following:

508.5.4 Obstruction Post, fences, vehicles (attended or unattended), trailers, growth, trash, storage and other materials or objects shall not be placed or kept near fire hydrants, fire department inlet connections or fire protection control system control valves, regardless of their location near public or private roadways, or on commercial or private property, in a manner that would prevent such equipment from being immediately discernable. The fire department shall not be deterred or hindered from gaining immediate access to fire protection equipment or fire hydrants. Vehicles and trailers found in violation thereof may be impounded, and towing and storage charges assessed under the provisions for violation of this code.

46. A new subsection 508.5.4.1 “Fire Lanes” shall be added and shall include the following language:

508.5.4.1 Fire lanes. No obstruction of any kind, including motor vehicles or trailers, whether attended or not, shall be placed, stored, parked or permitted to remain for any period of time in any area required for access to fire equipment to any public or private residential, or business, or complex of such buildings, designated as fire lanes.

Chapter 6 Building Services and Systems

47. Chapter 6 shall be amended by adding the following new section 611 “Fire Department radio communication”:

611 Fire department radio communications. All new and existing buildings constructed or located such that fire radio communications are hampered within the building shall install bi-directional amplifier(s) (BDAs) as needed in order that clear radio communication exists in all areas of said buildings. All bi-directional amplifiers shall have an emergency power back-up approved by the authority having jurisdiction. Verification for the need of (BDAs) shall be tested during inspection process of building. All existing buildings shall be verified during the annual inspection process and a plan of corrective action shall be set forth.

Chapter 7 Fire-Resistance-Rated Construction

No Amendments

Chapter 8 Interior Finish, Decorative Material and Furnishings

48. Section 803.1.1 “Explosive and Highly Flammable Materials” is amended to add the following new sub-section:

803.1.1.1 Included Items. Items in this category include, but are not limited to, Christmas trees not effectively flame-retardant treated, ordinary crepe paper decorations and pyroxylin plastic decorations.

49. Section 804.1.1 “Restricted Occupancies” shall be amended to add the letter “B” following the letter “M”. This section shall be further amended to delete the exception without replacement. Therefore after amendment this section shall read as follows:

804.1.1 Restricted Occupancies. Natural cut trees shall be prohibited in Group A, E, I-1, I-2, I-3, I-4, M, B, R-1, R-2, and R-4 occupancies.

50. Section 804 “Decorative vegetation” is amended to add the following new sub-section entitled “Prohibition on use of combustible decorative materials.”:

804.5 Prohibition on use of combustible decorative materials. Combustible decorative materials such as, but not limited to, cotton batting, vegetation, moss, straw, hay, vines, split bamboo, leaves and similar material shall not be used in Group A, E, I-1, I-2, I-3, I-4, M, R-1, R-2, R-4 and B occupancies.

Chapter 9 Fire Protection Systems

51. Section 901.2 “Construction documents” is amended to add the following three new sub-sections:

901.2.2 Sprinkler plan submittal. Plans for the installation of sprinkler systems shall be submitted to the Shelby County Fire Marshall’s Office and approved prior to installation of any new system and on all projects where 10 or more heads are added to an existing system or when calculations for the system must be revised.

901.2.3 Fire alarm plans submittal. Plans for the installation of fire alarm systems shall be submitted to the Shelby County Fire Marshall’s Office and approved prior to installation of any new system and for any alterations to existing systems where devices are added or removed.

901.2.4 All Other Fire Protection System Plans. Any plans for the installation of fire protection systems shall be submitted to the Shelby County Fire Marshall’s Office and approved prior to installation.

52. Section 903.2 “Where required” shall be deleted in its entirety and the following shall be substituted in its place so that when amended the section shall read as follows:

903.2 Where required. Approved automatic sprinkler systems shall be provided in all new or altered commercial buildings that exceed 5,000 square feet (4,645.5 m²) of gross floor area, and/or have floor surfaces used for human occupation located more than 30 feet (9.2m) above the lowest level of Fire Department vehicle access. “Altered” for purposes of this Chapter shall mean:

1. The addition to any existing commercial building by twenty (20%) percent.
2. Any change in occupancy to a retirement, or board and care residency

53. Section 903.2.1.1 “Group A-1”, shall be deleted in its entirety and replaced with the following:

903.2.1.1 Group A-1. An automatic sprinkler system shall be provided in Group A-1 occupancies where one of the following conditions exists:

1. The fire area has an occupancy load of 300 or more;
2. The fire area is located on a floor other than the level of exit discharge; or
3. The fire area contains a multitheater complex.

54. Section 903.2.1.3 “Group A-3”, shall be deleted in its entirety and replaced with the following:

903.2.1.3 Group A-3. An automatic sprinkler system shall be provided in Group A-3 occupancies where one of the following conditions exists:

1. The fire area has an occupancy load of 300 or more; or
2. The fire area is located on a floor other than the level of exit discharge

55. Section 903.2.1.4 “Group A-4.”, shall be shall be deleted in its entirety and replaced with the following:

903.2.1.4 Group A-4. An automatic sprinkler system shall be provided in Group A-4 occupancies where one of the following conditions exists:

1. The fire area has an occupancy load of 300 or more; or
2. The fire area is located on a floor other than the level of exit discharge

56, Section 903.2.2 “Group E” shall be shall be deleted in its entirety and replaced with the following:

903.2.2 Group E. An automatic sprinkler system shall be provided in Group E occupancies where one of the following conditions exists:

1. Throughout every portion of educational buildings below the level of exit discharge.

57. Section 903.2.3 “Group F-1” shall be deleted in its entirety and replaced with the following:

903.2.3 Group F. An automatic sprinkler system shall be provided throughout all buildings containing a Group F occupancy where one of the following conditions exists:

1. Where a Group F fire area is located more than three stories above grade;

58. Section 903.2.6 “Group M” shall be deleted in its entirety and replaced with the following:

903.2.6 Group M. An automatic sprinkler system shall be provided throughout buildings containing a Group M occupancy where one of the following conditions exists:

1. Where a Group M fire area is located more than three stories above grade.

59. Section 903.2.7 “Group R” shall be deleted in its entirety and replaced with the following:

903.2.7 Group R. An automatic sprinkler system installed in accordance with Section 903.3 shall be provided throughout all buildings with a Group R fire area.

Exceptions:

1. All one and two family dwellings

60. Section 903.2.8 “Group S-1” shall be deleted in its entirety and replaced with the following:

903.2.8 Group S-1. An automatic sprinkler system shall be provided throughout buildings containing a Group S-1 occupancy where one of the following conditions exists:

1. Where a Group S-1 fire area is located more than three stories above grade.

61. Section 903.2.8.1 “Repair garages.” shall be deleted in its entirety and replaced with the following:

903.2.8.1 Repair garages. An automatic sprinkler system shall be provided throughout all buildings used as repair garages in accordance with the *International Building Code* as locally amended, as follows:

1. Buildings with a repair garage serving vehicles parked in the basement.

62. Section 903.2.10.3 “Buildings more than 55 feet in height” shall be amended by deleting in its entirety the third “Exception” that reads “3. Occupancies in Group F-2.”

63. Section 903.3.5 “Water Supplies” is amended to add the following words at the end of the last sentence following the word “code”

and Memphis Light Gas and Water requirements.

64. Section 903.3.5.2 “Secondary water supply” is amended to delete the entire section and substitute in lieu thereof the following:

903.3.5.2 Secondary water supply systems. In addition to the main water supply, for high-rise buildings located where the effective peak velocity related acceleration, A_v , in accordance with 1999 SBCCI 1607.1 is equal or greater than 0.20., a secondary on-site supply of water equal to the hydraulically calculated sprinkler demand plus 100 gpm (6.31 L/s) for the standpipe system shall be provided. This supply shall have a duration of 30 minutes, but need not exceed 10,000 gallons (37.9m³)

65. Section 903.4 “Sprinkler system monitoring and alarms” shall be amended to add the following sentence at the end of the section following the word “supervised”.

“These valves shall also be locked in the normal position.”

66. Section 903.4 “Sprinkler system monitoring and alarms” shall be further amended to add exceptions # 8 and #9 at the end of the section:

8. Existing systems that have not been extended, modified or previously electrically supervised may be locked in the normal position.
9. Any private fire service mains, underground control or section valves with roadway boxes accessible with a special wrench shall not be required to be electronically supervised or locked in the normal position.

67. Section 903.4.1 “Signals” shall be amended to add the following new sub-section:

903.4.1.1 Supervision. All fire alarm or sprinkler systems required to be supervised by this code shall be monitored by an approved central station.

68. Section 903.4.3 “Floor control valves” is amended to delete the words “in high-rise buildings” at the end of the section and replace that phrase with the following phrase: “all buildings two (2) or more stories in height.” This section is further amended to add the following exceptions at the end of the section:

Exceptions: 1. Buildings equipped with an approved 13R sprinkler system that do not have a standpipe system.

903.4.3 Floor control valves. Approved supervised indicating control valves shall be provided at the point of connection to the riser on each floor in all buildings two (2) or more stories in height

Exceptions: 1. Buildings equipped with an approved 13R sprinkler system that do not have a standpipe system.

69. Section 904.11 “Commercial cooking systems” is amended by inserting the following sentences before the first sentence of this section following the word “systems” in the heading:

Commercial cooking systems shall include all cooking operations except those conducted in one and two family dwellings. Any exceptions to this requirement must be approved by the Fire Code Official.

70. Section 905.3 “Required installations” is amended to delete the numbers “905.3.6” in the first sentence and substitute in lieu thereof the number “905.3.7”.

71. Section 905.3 is further amended to add the following new sub-section 905.3.7 entitled “Other buildings”:

905.3.7 Other buildings. Buildings 50 feet or more in height, except those with a roof slope greater than 4:12 that do not require a wet standpipe shall be provided with a dry standpipe. The standpipe shall provide coverage for all areas of the building including the roof. The standpipe need not have an automatic water supply and shall be located so that hose lays do not exceed 250 feet. Access to the roof and the standpipe shall be provided. Each standpipe shall be capable of providing 500 gallons per minute at the topmost outlet when supplied by fire department equipment.

72. Section 907.2.5, “Group H”, shall be amended to delete the letter and number “H-5” in the first sentence and replace it with the letter “H”.

73. Section 907.15 “Monitoring” is amended to add the following two new sub-sections, 907.15.1 “Monitoring requirements” and 907.15.2 “Runner service”:

907.15.1 Monitoring requirements. Where monitoring of a fire alarm system is required in this jurisdiction, it shall be by an approved central station and shall be in accordance with the requirements of central station service as described in NFPA 72.

907.15.2 Runner service. A runner or technician, as defined by NFPA 72, must be dispatched to the protected premises to arrive within 1 hour after receipt of a signal, when required to respond.

74. Section 910.4 “Mechanical smoke exhaust” is amended by adding the following sentence at the end of the section following the word, “vents”:

“When mechanical smoke removal systems are provided, they shall conform to the requirements of this section.”

75. Section 910.4.1 “Location” is deleted in its entirety and the following shall be substituted in lieu thereof:

910.4.1 Required Air Exchanges. Smoke removal systems shall be designed to provide a minimum of six (6) air changes per hour at 100% exhaust to the outside.

76. Section 910.4.2 “Size” is deleted in its entirety and the following substituted in lieu thereof:

910.4.2 Specifications. Fans shall be in accordance with the following:

1. The fan capacity shall be based on an empty building.
2. The maximum individual capacity of a fan shall be 30,000 CFM
3. The exhaust fans shall be uniformly spaced within the building and the distance between the fans shall be no greater than 100 feet and not less than 50 feet, unless approved by the Fire Code Official.
4. Controls shall be designed for selective control of no more than 3 smoke removal units. Fans grouped on a single switch shall be in the same fire area and spaced according to item #3.
5. Electrical service to the smoke removal systems shall be connected on the line side of the main electrical disconnect.
6. The smoke removal fire department system control panel shall be in an approved location and shall be clearly identified. The control panel shall be located in a room protected by not less than a 1-hour fire resistance rated occupancy separation as identified in the building code or an exterior location approved by the Fire Official. The room shall be directly accessible from the exterior of the building. Automatic sprinkler protection shall be provided in the panel room.

77. Sections 910.4.3 and 910.4.4 shall be deleted without substitution, but the sections shall be reserved so that when amended they shall read as follows:

Section 910.4.3 Reserved

Section 910.4.4 Reserved.

78. Section 910.4.5 is deleted in its entirety and the following language substituted in lieu thereof:

910.4.5 Spacing and size. Supply inlets for exhaust fans shall be uniformly spaced within the building and the maximum distance between inlets shall not exceed 100 feet, unless approved by the Fire Code Official. The openings shall be sized to provide a minimum of 50% of required exhaust. Overhead doors shall not be used as required supply air inlets.”

79. Section 912 “Fire department connections”, shall be amended to add the following new sub-section:

912.7 Proximity to Fire Hydrants. Fire department connections shall be located not more than 100 feet from an approved fire hydrant.

80. Section 913.4 “Valve supervision” shall be amended to delete the entire section and substitute in lieu thereof the following:

913.4 Valve supervision. All valves which effect the proper operation of the fire pump, shall be supervised electrically by an approved central station and be locked in the normal position

EXCEPTION In private fire service mains, underground control or section valves with roadway boxes accessible with a special wrench shall not be required to be electronically supervised or locked in the normal position.

Chapter 10 Means of Egress

81. The “Exception” in Section 1001 “General.” is amended by substituting the phrase “2003 Edition of the International Building Code, as locally amended.” for the phrase “International Residential Code”

82. Section 1001, “General” is also amended to add the following new sub-section 1001.3 with the heading “Other standards” that shall read as follows:

1001.3 Other standards. When this code does not contain requirements on a particular aspect of a means of egress system, NFPA 101 may be used as an accepted engineering practice standard.

83. Section 1006.1 “Illumination required” is amended to add the following at the end of exception # 2 following the letter “A”:

and Group S (Sprinklered)

84. Section 1014.2.1 “Two exits or exit access doorways” shall be amended to add the following sentence at the end of exception # 1 following the word “corridor”:

Exit enclosure walls shall not be less than 30 feet (9144 mm) apart at any point in a direct line of measurement.

85. Section 1019.1.7, “Stairway floor number signs”, shall be amended to add the following new sub-section 1019.1.7.1 entitled “Lettering size”:

1019.1.7.1 Lettering size. Letters or numbers that indicate the floor level shall be at least four (4) inches high with a half inch wide stroke. Other required information on the sign shall be written with letters a minimum of one (1) inch high on contrasting background.

86. Section 1027, “Maintenance of the means of egress” is amended to add the following new sub-sections 1027.6 “Overcrowding” and 1027.7 “Emergency lighting testing” which shall read as follows:

1027.6 Overcrowding. The number of occupants of any building or portion thereof shall not be permitted to exceed the allowed or posted capacity, determined in accordance with the building code.

1027.7 Emergency lighting testing. A functional test shall be conducted on every required emergency lighting system at 30-day intervals for a minimum of 30 seconds. An annual test shall be conducted for a 1½ hour duration. Equipment shall be fully operational for the duration of the test. Written records of testing shall be kept by the owner for inspection by the Fire Code Official.

Chapter 11 Aviation Facilities

87. Section 1104 “Aircraft Maintenance” is amended to add the following new subsection 1104.7 “Drip pans”:

1104.7 Drip pans. Every aircraft hanger shall be equipped and maintained with metal drip pans under the engines of all aircraft stored or parked therein.

Chapter 12 Dry Cleaning

No amendments

Chapter 13 Combustible Dust-Producing Operations

No Amendments

Chapter 14 Fire Safety During Construction and Demolition

88. Section 1413.3 “Detailed requirements” is amended to add the following sentence at the end of the exception following the word “materials”:

The type of standpipe permitted shall be approved by the Fire Code Official.

Chapter 15 Flammable Finishes

No Amendments

Chapter 16 Fruit and Crop Ripening

No Amendments

Chapter 17 Fumigation and Thermal Insecticidal Fogging

No Amendments

Chapter 18
Semiconductor Fabrication Facilities

No Amendments

Chapter 19
Lumber Yards and Woodworking Facilities

No Amendments

Chapter 20
Manufacture of Organic Coatings

89. Section 2009.4.2 “Spills” is amended by deleting the words “or by burning in the open at an approved detached location” without substitution.

Chapter 21
Industrial Ovens

No Amendments

Chapter 22
Motor Fuel Dispensing Facilities and Repair Garages

90. Section 2204.3.1 “General” is amended by deleting it in its entirety and substituting in lieu thereof the following:

2204.3.1 General. Visual supervised monitoring shall be so located as to have full view of all dispensing devices and shall be constantly attended off-site by a minimum of two individuals. If visual supervised monitoring becomes inoperative, repair shall be made within four (4) hours or dispensing of fuel shall be discontinued.

91. A new subsection sub-section 2204.3.8 “Additional fire protection” shall be added to section 2204.3 “Unattended self-service motor fuel-dispensing facilities” and shall read as follows:

2204.3.8 Additional fire protection. Additional fire protection shall be provided for unattended service stations open to the public in accordance with the following:

- a. Automatic fire suppression systems shall be installed in accordance with appropriate NFPA standards, manufacturer’s instructions, and the listing requirements of the systems. The fire suppression systems shall provide complete coverage for the hazard including spillage under vehicles.
- b. Provide a manual fire alarm pull station for fire department notification. This system and the fire suppression system shall be monitored by an approved central station in compliance with NFPA 72.
- c. Provide infrared heat sensors for automatic actuation of the fixed fire suppression system with remote actuation.
- d. Provide automatic fueling shut-off at 35 gallons per transaction.

92. Section 2206.2.3 “Above-ground tanks located outside, above grade” Item #1 is amended by adding a note to the item that shall read as follows:

Note: Service stations open to the public will not be permitted to install thermally protected aboveground fuel tanks for the storage and dispensing of Class I liquids.

Chapter 23 High-Piled Combustible Storage

93. Section 2301.1 “Scope” is amended to delete the letters and number “NFPA 231C” at the end of number 4 and replace them with the letters and number “NFPA 232”.

94. Section 2304.2 “Designation based on engineering analysis” is amended to delete the letters and numbers “NFPA 231 and NFPA 231C” at the end of the third sentence and replace them with the letters and numbers “NFPA 13 and NFPA 230”.

95. Section 2306.6.1.2 Door Size and Type is amended to add the following exception
Exception: Roll up doors shall be allowed to be considered for use as fire fighter access doors provided provision is made for the doors to unlock upon activation of the water flow alarm.

96. Section 2307.2 “Fire protection” is amended to delete the letters and number “NFPA 231” at the end of the section and replace it with the letters and number “NFPA 13”.

97. Section 2307.2.1 “Shelf storage” is amended to delete the letters and number “NFPA 231” at the end of the first sentence and replace with the letters and number “NFPA 13”.

98. Section 2308.2 “Fire protection” is amended to delete the letters and number “NFPA 231C” at the end of the section and replace with the letters and number “NFPA 13”.

99. Section 2308.2.2 “Racks with solid shelving” is amended to delete the letters and number “NFPA 231C” at the end of exception # 2 and replace with the letters and number “NFPA 232”.

100. Section 2308.4 “Column protection” is amended to delete the letters and number “NFPA 231C” at the end of the section and replace with the letters and number “NFPA 13”.

101. Section 2310.1 “General” is amended to delete the letters and number “NFPA 231C” at the end of the first sentence and replace with the letters and number “NFPA 232”.

Chapter 24
Tents, Canopies and Other Membrane Structures

102. Section 2403.2 “Approval required” is deleted in its entirety and the following language is substituted in lieu thereof:

2403.2 Approval Required. Tents, membrane and canopies structures having an area of 120 square feet or more shall not be erected, operated or maintained for any purpose without first obtaining a permit and approval from the fire code official.

EXCEPTION: Tents used exclusively for recreational camping purposes.

103. Section 2404.15.5 “Cooking tents” is amended to add the words “unless approved by the Fire Code Official” at the end of the section following the numbers and letters “20 feet (6096 mm)”.

104. Section 2404.15.6 “Outdoor Cooking” is amended by adding the words “unless approved by the Fire Code Official” at the end of the section following the word “structure”.

Chapter 25
Tire Rebuilding and Tire Storage

No Amendments

Chapter 26
Welding and Other Hot Work

No Amendments

Chapter 27
Hazardous Materials – General Provisions

No Amendments

Chapter 28
Aerosols

No Amendments

Chapter 29
Combustible Fibers

No Amendments

Chapter 30
Compressed Gases

No Amendments

Chapter 31
Corrosive Materials

No amendments

Chapter 32
Cryogenic Fluids

No Amendments

Chapter 33

Explosives and Fireworks

No Amendments

Chapter 34 Flammable and Combustible Liquids

105. Section 3403 “General Requirements” is amended by adding the following new sub-section 3403.1.4 “Unauthorized storage”:

3403.1.4 Unauthorized storage. It shall be illegal to store or keep gasoline powered equipment, such as motorcycles, lawn equipment and the like, in any building unless the room or space is approved for such use.

106. Section 3403.5 “Labeling and signage” is amended to add the words “or combustible” following the word “flammable” in the first sentence.

107. Section 3404.3.3 “Indoor storage” is amended to add the following exception #3:

3. The storage of flammable and combustible liquids in plastic containers shall comply with this chapter as well as applicable sections of NFPA 30. Compliance with Factory Mutual 7-29 shall be considered an acceptable alternative to NFPA 30 or may be used when storage arrangements are outside the scope of NFPA 30.

Chapter 35 Flammable Gases

No Amendments

Chapter 36 Flammable Solids

No Amendments

Chapter 37 Highly Toxic and Toxic Materials

No Amendments

Chapter 38 Liquefied Petroleum Gases

108. Section 3803.2.1 “Portable containers” is amended by adding the following new sub-section 3803.2.1.8 “Flame effect before a proximate audience”:

3803.2.1.8 Flame effects before a proximate audience. The use of LP gas as part of a flame effect before a proximate audience shall comply with this chapter and NFPA 160 and shall be approved by the Fire Code Official.

Chapter 39 Organic Peroxides

No Amendments

Chapter 40

	Oxidizers
No Amendments	Chapter 41
	Pyrophoric Materials
No Amendments	Chapter 42
	Proxylin (Cellulose Nitrate) Plastics
No Amendments	Chapter 43
	Unstable (Reactive) Materials
No Amendments	Chapter 44
	Water Reactive Solids and Liquids
No Amendments	Chapter 45
	Referenced Standards

109. Chapter 45, “Referenced Standards”, is amended by deleting and adding the following standards and publications:

DELETE

NFPA Standards

10—98 Portable Fire Extinguishers	Table 901.6.1, 906.2, 906.3, Table 906.3(1), Table 906.3(2), 2106.3
11—98 Low Expansion Foam	904.7, 3404.2.9.1.2
12A—97 Halon 1301 Fire Extinguishing Systems	Table 901.6.1, 904.9
13—99 Installation of Sprinkler Systems	Table 704.1, 903.3.1.1, 903.3.2, 903.3.5.1.1, 903.3.5.2, 904.11, 907.9, Table 2306.2, 2306.9, 2804.1, 3404.3.7.5.1, 3404.3.8.4
13D—99 Installation of Sprinkler Systems in One- and Two-Family Dwellings and Manufactured Homes.	903.3.1.3, 903.3.5.1.1
13R—99 Installation of Sprinkler Systems in Residential Occupancies up to and Including Four Stories in Height.	903.1.2, 903.3.1.2, 903.3.5.1.1, 903.3.5.1.2, 903.4
14—00 Installation of Standpipe, Private Hydrants and Hose Systems	905.2, 905.3.4, 905.4.2, 905.8
15—96 Water Spray Fixed Systems for Fire Protection	3404.2.9.1.3
16—99 Installation of Foam-Water Sprinkler and Foam-Water Spray Systems	904.7, 904.11
17—98 Dry Chemical Extinguishing Systems	Table 901.6.1, 904.6, 904.11
17A—98 Wet Chemical Extinguishing Systems	Table 901.6.1, 904.5, 904.11
20—99 Installation of Stationary Pumps for Fire Protection	913.1, 913.2, 913.5.1
22—98 Water Tanks for Private Fire Protection	508.2.2
24—95 Installation of Private Fire Service Mains and their Appurtenances	508.2.1, 1909.5
25—98 Inspection, Testing and Maintenance of Water-Based Fire Protection Systems	508.5.3, Table 901.6.1, 904.7.1, 912.6, 913.5,
30—00 Flammable and Combustible Liquids Code	3403.6.2, 3403.6.2.1, 3404.2.7, 3404.2.7.1, 3404.2.7.2, 3404.2.7.3.6, 3404.2.7.4, 3404.2.7.6, 3404.2.7.7, 3404.2.7.8, 3404.2.7.9, 3404.2.9.2, 3404.2.9.3, 3404.2.9.5.1.1, 3404.2.9.5.1.2, 3404.2.9.5.1.3, 3404.2.9.5.1.4,

3404.2.9.5.1.5, 3404.2.9.5.2, 3404.2.9.6.4, 3404.2.10.2, 3404.2.11.4, 3404.2.11.5.2, 3404.2.12.1, 3404.3.1, 3404.3.6, 3404.3.7.2.3, 3404.3.8.4, 3406.8.3	
30A—00 Code for Motor Fuel-Dispensing Facilities and Repair Garages	2201.4, 2201.5, 2201.6, 2206.6.3, 2210.1
30B—98 Manufacture and Storage of Aerosol Products	2801.1, 2803.1, 2804.1, Table 2804.3.1, Table 2804.3.2, Table 2804.3.2.2, 2804.4.1, 2804.5.2, 2804.6, Table 2806.2, Table 2806.3, 2806.5, 2806.8, 2807.1, Table 2804.3.2, Table 2804.3.2.2, 2804.4.1, 2804.5.2, 2804.6, Table 2806.2, Table 2806.3
33—00 Spray Application Using Flammable or Combustible Materials	1504.1.2
34—00 Dipping and Coating Processes Using Flammable or Combustible Liquids	1505.3, 1505.6.
40—97 Storage and Handling of Cellulose Nitrate Motion Picture Film	306.2
51—97 Design and Installation of Oxygen-Fuel Gas Systems for Welding, Cutting, and Allied Processes	2601.5, 2607.1, 2609.1
52—98 Compressed Natural Gas (CNG) Vehicular Fuel Systems.	3001.1
57—99 Liquefied Natural Gas (LNG) Vehicular Fuel Systems	3001.1
58—01 Liquefied Petroleum Gas Code . . .	3801.1, 3803.1, 3803.2.1, 3803.2.1.2, 3803.2.1.7, 3803.2.2, 3804.1, 3804.3.1, 3804.4, 3806.3, 3807.2, 3808.1, 3808.2, 3809.11.2, 3811.3
61—99 Prevention of Fires and Dust Explosions in Agricultural and Food Products Facilities	Table 1304.1
69—97 Explosion Prevention Systems	911.1, 911.3, Table 1304.1
72—99 National Fire Alarm Code	509.1, Table 901.6.1, 903.4.1, 904.3.5, 907.2, 907.2.1, 907.2.1.1, 907.2.10, 907.2.10.4, 907.2.11.2, 907.2.11.3, 907.2.12.2.3, 907.2.12.3, 907.3, 907.5, 907.6, 907.10.2, 907.11, 907.15, 907.17, 907.18, 907.20, 907.20.2, 907.20.5
85—01 Boiler and Combustion System Hazards Code	Table 1304.1 (Note: NFPA 8503 has been incorporated into NFPA 85)
86—99 Ovens and Furnaces	2101.1
99—99 Health Care Facilities.	3006.4
101—00 Life Safety Code	1024.6.2
110—99 Emergency and Standby Power Systems	604.1, 604.4, 913.5.2, 913.5.3
211—00 Chimneys, Fireplaces, Vents and Solid Fuel-Burning Appliances	603.2
260—98 Methods of Tests and Classification System for Cigarette Ignition Resistance of Components of Upholstered Furniture	803.6.1, 803.7.1
261—98 Method of Test for Determining Resistance of Mock-Up Upholstered Furniture Material Assemblies to Ignition by Smoldering Cigarettes.	803.5.1
265—98 Standard Method of Fire Tests for Evaluating Room Fire Growth Contribution of Textile Wall Coverings	806.2.3, 806.2.3.1, 806.2.3.2
407—96 Aircraft Fuel Servicing	1106.2, 1106.3
430—95 Storage of Liquid and Solid Oxidizers	4004.1.4
490—98 Storage of Ammonium Nitrate	3301.1.5
495—96 Explosive Materials Code	911.1, 911.4, 3301.1.1, 3301.1.5, 3302.1, 3304.2, 3304.6.2, 3304.6.3, 3304.7.1, 3305.1, 3306.1, 3306.5.2.1, 3306.5.2.3, 3307.1, 3307.9, 3307.11, 3307.15
498—96 Safe Havens and Interchange Lots for Vehicles Transporting Explosives ..	3301.1.2
505—99 Powered Industrial Trucks, Including Type Designations, Areas of Use, Maintenance, and Operation	2703.7.3
655—93 Prevention of Sulfur Fires and Explosions.	Table 1304.1
664—98 Prevention of Fires and Explosions in Wood Processing and Woodworking Facilities	Table 1304.1, 1905.3

704—96 Identification of the Hazards of Materials for Emergency Response	
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750—00 Standard on Water Mist Fire Protection Systems	Table 901.6.1
1122—97 Model Rocketry	3301.1.4
1124—98 Manufacture, Transportation, and Storage of Fireworks and Pyrotechnic Articles	
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1125—95 Manufacture of Model Rocket and High Power Rocket Motors	3301.1.4
1127—98 High Power Rocketry	3301.1.4
2001—00 Clean Agent Fire Extinguishing Systems	Table 901.6.1, 904.10

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10—07 Portable Fire Extinguishers	Table 901.6.1, 906.2, 906.3, Table 906.3(1), Table 906.3(2), 2106.3
11—05 Low Expansion Foam	904.7, 3404.2.9.1.2
12A—04 Halon 1301 Fire Extinguishing Systems	Table 901.6.1, 904.9
13—07 Installation of Sprinkler Systems	Table 704.1, 903.3.1.1, 903.3.2, 903.3.5.1.1, 903.3.5.2, 904.11, 907.9, Table 2306.2, 2306.9, 2804.1, 3404.3.7.5.1, 3404.3.8.4
13D—07 Installation of Sprinkler Systems in One- and Two-Family Dwellings and Manufactured Homes.	903.3.1.3, 903.3.5.1.1
13R—07 Installation of Sprinkler Systems in Residential Occupancies up to and Including Four Stories in Height.	903.1.2, 903.3.1.2, 903.3.5.1.1, 903.3.5.1.2, 903.4
14—07 Installation of Standpipe, Private Hydrants and Hose Systems	905.2, 905.3.4, 905.4.2, 905.8
15—07 Water Spray Fixed Systems for Fire Protection	3404.2.9.1.3
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17—02 Dry Chemical Extinguishing Systems	Table 901.6.1, 904.6, 904.11
17A—02 Wet Chemical Extinguishing Systems	Table 901.6.1, 904.5, 904.11
20—07 Installation of Stationary Pumps for Fire Protection	913.1, 913.2, 913.5.1
22—03 Water Tanks for Private Fire Protection	508.2.2
24—07 Installation of Private Fire Service Mains and their Appurtenances	508.2.1, 1909.5
25—02 Inspection, Testing and Maintenance of Water-Based Fire Protection Systems	508.5.3, Table 901.6.1, 904.7.1, 912.6, 913.5,
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30A—03 Code for Motor Fuel-Dispensing Facilities and Repair Garages	2201.4, 2201.5, 2201.6, 2206.6.3, 2210.1
30B—07 Manufacture and Storage of Aerosol Products	2801.1, 2803.1, 2804.1, Table 2804.3.1, Table 2804.3.2, Table 2804.3.2.2, 2804.4.1, 2804.5.2, 2804.6, Table 2806.2, Table 2806.3, 2806.5, 2806.8, 2807.1, Table 2804.3.2, Table 2804.3.2.2, 2804.4.1, 2804.5.2, 2804.6, Table 2806.2, Table 2806.3
33—07 Spray Application Using Flammable or Combustible Materials	1504.1.2
34—07 Dipping and Coating Processes Using Flammable or Combustible Liquids	1505.3, 1505.6.

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52—06 Compressed Natural Gas (CNG) Vehicular Fuel Systems	3001.1
57—02 Liquefied Natural Gas (LNG) Vehicular Fuel Systems	3001.1
58—04 Liquefied Petroleum Gas Code	3801.1, 3803.1, 3803.2.1, 3803.2.1.2, 3803.2.1.7, 3803.2.2, 3804.1, 3804.3.1, 3804.4, 3806.3, 3807.2, 3808.1, 3808.2, 3809.11.2, 3811.3
61—02 Prevention of Fires and Dust Explosions in Agricultural and Food Products Facilities	Table 1304.1
69—02 Explosion Prevention Systems	911.1, 911.3, Table 1304.1
72—07 National Fire Alarm Code	509.1, Table 901.6.1, 903.4.1, 904.3.5, 907.2, 907.2.1, 907.2.1.1, 907.2.10, 907.2.10.4, 907.2.11.2, 907.2.11.3, 907.2.12.2.3, 907.2.12.3, 907.3, 907.5, 907.6, 907.10.2, 907.11, 907.15, 907.17, 907.18, 907.20, 907.20.2, 907.20.5
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101—06 Life Safety Code	1024.6.2
110—05 Emergency and Standby Power Systems	604.1, 604.4, 913.5.2, 913.5.3
211—06 Chimneys, Fireplaces, Vents and Solid Fuel-Burning Appliances	603.2
230—03 Fire Protection of Storage	
232—07 Protection of Records	
260—03 Methods of Tests and Classification System for Cigarette Ignition Resistance of Components of Upholstered Furniture	803.6.1, 803.7.1
261—03 Method of Test for Determining Resistance of Mock-Up Upholstered Furniture Material Assemblies to Ignition by Smoldering Cigarettes	803.5.1
265—07 Standard Method of Fire Tests for Evaluating Room Fire Growth Contribution of Textile Wall Coverings	806.2.3, 806.2.3.1, 806.2.3.2
407—07 Aircraft Fuel Servicing	1106.2, 1106.3
409—04 Aircraft Hangers	
415—02 Airport Terminal Buildings, Fueling Ramp Drainage, Loading Walkways	
418—06 Heliports	
430—04 Storage of Liquid and Solid Oxidizers	4004.1.4
490—02 Storage of Ammonium Nitrate	3301.1.5
495—06 Explosive Materials Code	911.1, 911.4, 3301.1.1, 3301.1.5, 3302.1, 3304.2, 3304.6.2, 3304.6.3, 3304.7.1, 3305.1, 3306.1, 3306.5.2.1, 3306.5.2.3, 3307.1, 3307.9, 3307.11, 3307.15
498—06 Safe Havens and Interchange Lots for Vehicles Transporting Explosives ..	3301.1.2
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704—07 Identification of the Hazards of Materials for Emergency Response	606.7, 606.9.3.4, 1802.1, 2703.2.2.1, 2703.2.2.2, 2703.5, 2703.10.2, 2705.1.10, 2705.2.1.1, 2705.4.4, 3203.4.1, 3404.2.3.2
750—06 Standard on Water Mist Fire Protection Systems	Table 901.6.1
1122—02 Model Rocketry	3301.1.4
1124—06 Manufacture, Transportation, and Storage of Fireworks and Pyrotechnic Articles	3302.1, 3304.2, 3305.1, 3305.3, 3305.4, 3305.5

1125—07 Manufacture of Model Rocket and High Power Rocket Motors	3301.1.4
1127—02 High Power Rocketry	3301.1.4
2001—04 Clean Agent Fire Extinguishing Systems	Table 901.6.1, 904.10

Factory Mutual Standards

7.29 Flammable and Combustible Liquids, (current edition) – Sections concerned with requirements for flammable and combustible liquids in plastic containers only.

API

API 2201 Procedures for Welding or Hot Tapping on Equipment Containing Flammables
(current edition)

110. Amendment to Appendix C by adding a new Section C106 “Marking of Hydrants” and new sections C106.1 that shall read as follows:

Section C106
Marking of Hydrants

C106. 1 When required. When private hydrants are required by this code, they must be marked to improve their visibility by painting them red. Bonnets must also be painted to indicate the flow capacity of the hydrant as follows:

1. Less than 500 Gallons per minute (GPM) – Red
2. Between 500 and 999 GPM - Orange
3. Between 1,000 and 1499 GPM – Green
4. More than 1500 GPM – Light Blue